

**CATALYST BODY****Publication number:** JP3169341**Publication date:** 1991-07-23**Inventor:** TERUI SADAO; YOKOTA YOSHIYUKI**Applicant:** NIPPON CATALYTIC CHEM IND**Classification:**

**- International:** *B01D53/86; B01J23/34; B01J23/64; B01J23/656;  
B01J23/84; B01J23/889; B01J29/78; B01J35/02;  
B01D53/86; B01J23/16; B01J23/54; B01J23/76;  
B01J29/00; B01J35/00; (IPC1-7): B01D53/36;  
B01J23/34; B01J23/64; B01J23/84; B01J29/36;  
B01J35/02*

**- european:****Application number:** JP19890312325 19891130**Priority number(s):** JP19890312325 19891130**Report a data error here****Abstract of JP3169341**

**PURPOSE:**To obtain a catalyst body efficiently usable over a long period of time by integrally molding manganese dioxide to form a catalyst body and directly supplying a current to the catalyst body to heat the same. **CONSTITUTION:**Manganese dioxide alone having conductivity is molded to form a catalyst body or it is molded using a binder such as a silica sol or an alumina sol and supported on an inorg. carrier to form the catalyst body. If necessary, a catalytic component such as Fe, Co or Ni is contained in the catalyst body. When this catalyst body is used, conductive paste is applied to both side surfaces of the catalyst body and a metal plate is bonded to both coated surfaces and a lead wire is connected to the metal plate and a current is supplied to the metal plate to directly heat the catalyst body. By this method, it is unnecessary to separately provide a heating source and stable treatment effect is obtained over a long period of time.

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[Cited Reference 3]

(TRANSLATION)

Japanese Patent Office

Official Laid - Open Patent Gazette

Japanese Laid - Open Patent Publication

(Kokai) No. Hei. 3 - 169341

Laid - Open Date: July 23, 1991

Application No. Hei. 1 - 312325

Application Date: November 30, 1989

Inventors: Sadao Terui (phonetic) et al

Applicant: Nihon Shokubai Kagaku Kogyo K.K. (phonetic)

Title of Invention: A catalyst

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What Is Claimed:

[1] A catalyst obtained by integration - molded manganese dioxide ( $MnO_2$ ) characterized in that electric current can be directly applied to the catalyst for heating.  
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(3) A catalyst obtained by supporting manganese dioxide ( $MnO_2$ ) on an inorganic carrier, characterized in that the catalyst can be integration - molded and fruther that electric current can be directly applied to the catalyst for heating.